

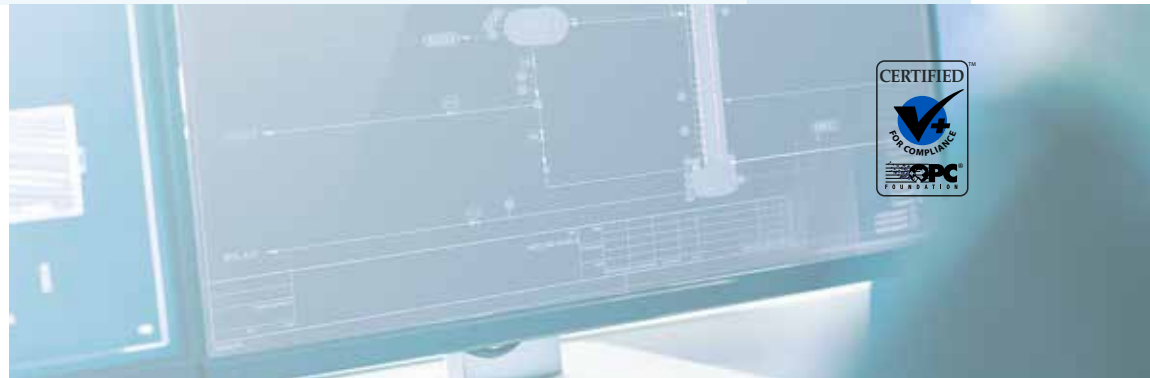


NAPCON TRAIN

NAPCON Train Solutions bring your real life plant into the virtual world, taking operator training to a whole new level.

NAPCON TRAIN

- NAPCON GAMES
- NAPCON SIMULATOR





NAPCON TRAIN



NAPCON GAMES

Make trainings fun, educative and meaningful with a unique portfolio of NAPCON Games.



NAPCON CONSULTING SERVICES

Make smart training investment decisions with our expert services.



NAPCON SERVICES

Ensure zero downtime, maintained and always updated training environment.



NAPCON SIMULATOR

State of the art portfolio of Customized Simulator, LITE Simulator and Engineering Simulator.



NAPCON LEARNING PATH

Organization-wide competence development and assessment solution.

NAPCON TRAIN

NAPCON Train solutions are a combination of modern training products and services to meet your plant personnel training needs. NAPCON Train portfolio consists of NAPCON Learning Path (with NAPCON e-learning, NAPCON Games, NAPCON Simulator), NAPCON Consultation Services and NAPCON Platform Services.

NAPCON PLATFORM SERVICES takes care of software and hardware needs and keeps your training facility always up and running.

NAPCON EXPERTS have a deep understanding of training needs. With a combination of thorough analysis, we offer customized training that can lead operator's training to a new level.



NAPCON GAMES PORTFOLIO

Gamification is an unbeatable way to make training more meaningful, fun and educative. NAPCON Games increases learning motivation and supports operator's development with professional training games.

CUSTOMIZED LEARNING GAMES

NAPCON Games offers custom-made training games that can be tailored for particular process and educational needs. Tailormade NAPCON Games are designed for your special needs and are plant-specific contents to the client organization.

" We have a long relationship with NAPCON in developing games for operator training. They have managed to combine their extensive process industry experience with gamification - making our operator training more effective."

Esa Tamminen, Senior Process Specialist, Neste Oyj

"I like NAPCON Games. It is a low-stakes and fun opportunity to better understand distillation and the kind of upsets that happen in industrial settings. I think it would be very useful to our students to practice real-life phenomena in a simulation such as this"

J. Douglas White, P.E., Senior Lecturer,

Texas A&M University, Artie McFerrin Department of Chemical Engineering.

FUEL BLENDER



NAPCON Games Fuel Blender allows the player to test their skills in fuel blending and learn about the different components that go into a specific fuel mixture. Fuel Blender is a mobile game, which can be downloaded for free to give a hint of what NAPCON Games products can offer.

DISTILLER



NAPCON Games Distiller is a modern extension to traditional classroom operator training. With Distiller, your operators are able to learn new or enhance their existing skills in industrial distillation in an oil refinery.

BOILING



NAPCON Games Boiling is a new generation operator training game which allows the operator to test their skills in how circulation works in a thermosiphon reboiler.

HEAT TRANSFER



With NAPCON Games Heat Transfer, your operators are taught phenomena of evaporation, condensing and superheating of steam, how it is done and what happens.

FURNACE



NAPCON Games Furnace is a simulation based learning game. With Furnace, your operators are able to independently learn the process and principles of operating a furnace.

CONDENSING



NAPCON Games Condensing is a new generation operator training game which teaches the operators the differences between a partial condenser and a total condenser.

FLUIDIZED CATALYTIC CIRCULATION



NAPCON Games Fluidized Catalytic Circulation is a training game which trains operators in complex operations of one of the most important conversion process in the refinery industry: Fluidized Catalyst Cracking.

NAPCON GAMES MAIN BENEFITS

COST-EFFICIENCY

NAPCON Games are cost-efficient tools for complementing other training methods, such as specific theoretical lectures.

FAST AND EFFICIENT LEARNING

Gamification is an unbeatable way to make training more meaningful. NAPCON Games, a series of highly advanced training games, turn work to play and play to work. NAPCON Games is an efficient method for onboarding newcomers and strengthening the skills of more seasoned experts.

INDEPENDENT LEARNING

NAPCON Games supports in-class learning. By filling the gap between theory and unit specific training it allows the player to learn the fundamental principles in a gamified learning environment before moving to work with complex real life process.

FUN AND EFFECTIVE

Features micro-learning with instant feedback that makes it fun and efficient.

ACHIEVEMENTS

Motivate the player to play NAPCON Games week after week.

REALISTIC PROCESS SIMULATION

With dynamic process modeling software by NAPCON, processes are modeled using first principle physical-chemical models, extensive chemical components and properties library and rigorous calculations.



NAPCON SIMULATOR PORTFOLIO

NAPCON Simulator is a highly interactive training simulator that turns your plant into a safe training environment. It offers challenging and motivating training for both beginners and experts.

" With NAPCON Simulator we can rehearse possible disturbances cost-effectively, improve operative know-how and enhance plant productivity. We want to ensure that refinery operations are safe and effective under any conditions and consider that acquiring a NAPCON Simulator supports excellently achieving these targets."

Risto kemi, Simulator development coordinator, Neste Oyj

NAPCON LITE OTS

NAPCON Lite OTS is a generic level simulator that offers a possibility to train plant personnel on a particular technology or on a process, without going to the specific process plant details.



NAPCON SIMULATOR

NAPCON Simulator is a custom made, state of the art simulator. It offers the production line-wide teamwork training for operator shifts, and it has several operator training applications that cover process phenomena and all process equipment. It consists of modern Instructor functions with an easy-to-use graphical interface for introducing various faults and disturbances for training scenarios. NAPCON Simulator is available with both generic and DCS vendor-specific emulated operator displays (Human Machine Interface).



NAPCON ENGINEERING SIMULATOR

NAPCON Engineering Simulator enables using the simulator for conducting dynamic engineering studies along with the control system configuration. A few of the many assessments that can be done via NAPCON Engineering Simulator are what-if scenarios, Control strategy assessment, Optimization strategy assessment and Operational procedure assessment.



NAPCON SIMULATOR MAIN BENEFITS

SAFETY

NAPCON Simulator improves plant asset safety. Plant operators and engineers can be trained in risk-free environment on how to respond during upset conditions to reduce incidents.

PROFITABILITY

Increased plant availability, enhanced asset performance as well as safe and reliable plant operation due to improved operator skills.

CONFIDENCE

Personnel can work professionally under pressure and solve problems efficiently. The simulator provides true value for beginners as well as for the most experienced engineers and operators.

LIFECYCLE

NAPCON Simulator provides a possibility to validate engineering design, test plant controls and provide state of art training by a modern and continuously maintained training simulator. This ensures the learning environment evolves together with the actual plant.

FLEXIBILITY

Cloud services provide easy-to-scale virtual training rooms and location-independent access. Cloud and/or in-premises operator simulator allows for a highly realistic training experience.

ENHANCEMENT

Allows identification of improvements in actual plant operability as well as in the automation system.

EARLY START

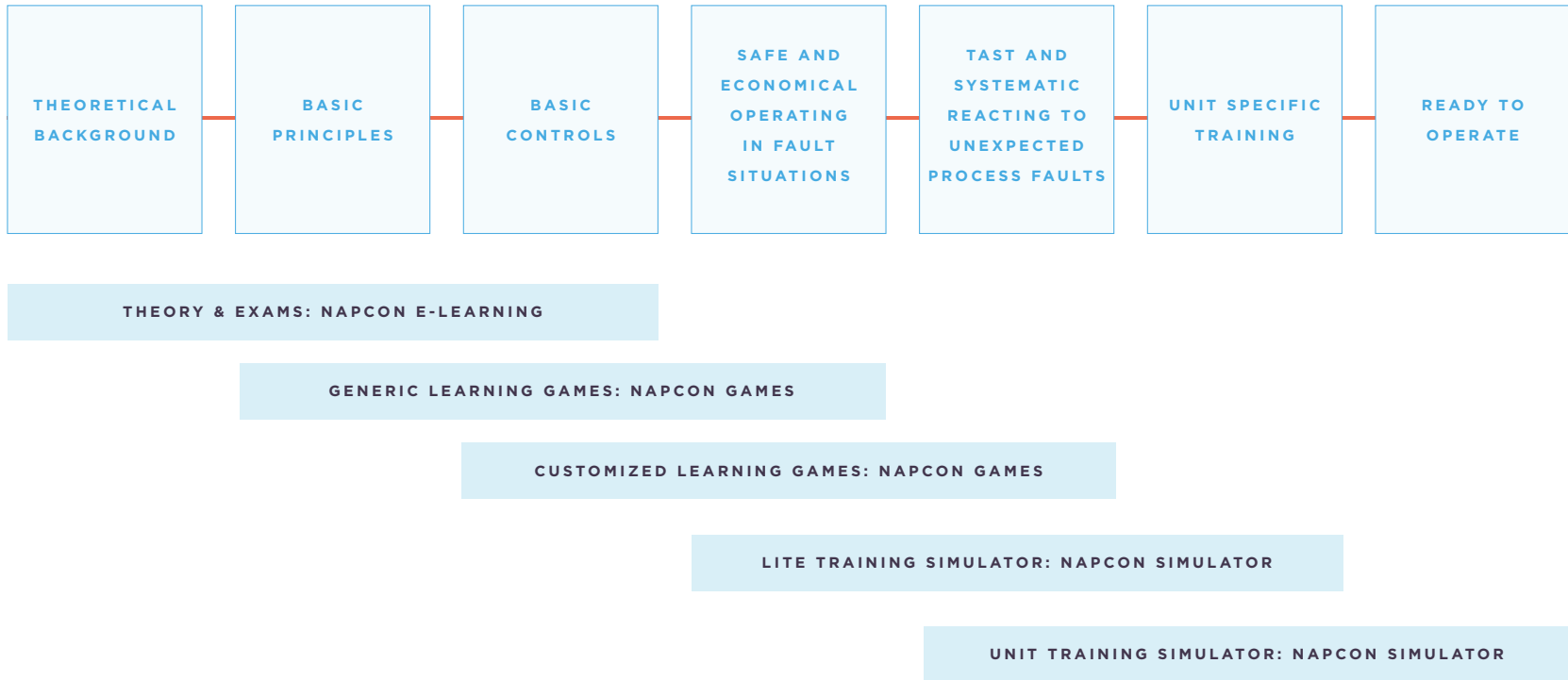
NAPCON Simulator provides possibility to replicate and assess the operational readiness of plant assets long before they are applied in real-world production scenarios.

NAPCON LEARNING PATH LEADS TO BETTER PERFORMANCE LEVELS AND SAFER OPERATION

NAPCON Learning Path is an organization wide competence development and an assessment solution, which is a combination of NAPCON E-Learning, NAPCON Games and NAPCON Simulator that ensures and certifies your plant personnel to be ready to operate your assets. It is one of the most effective digitalized learning paths for efficient training of plant personnel in the process industry. NAPCON Learning Path leads to better performance levels and safer operation which in turn leads to increased business.



OPERATOR LEARNING PATH WITH NAPCON TRAIN SOLUTIONS



NAPCON WAY OF TRAINING



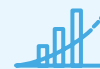
NAPCON Consulting Services supports you in making smart investments by helping you evaluate the needs of the process industry training, and consults you on the parts of training that are critical to invest in. Our experts not only help you finding answers to your questions related to training, but also help you plan steps to improve the life cycle of your operator training system.

NAPCON Consulting Services plays a crucial role in specifying training needs and then developing customized training products and services to best match your requirements. Our consultants support you all the way from making an evaluation, developing a plan for your training process and finally developing a whole new and customized training system for your plant operators and engineers.

OUR MAIN SERVICE OF CONSULTING INCLUDES:



Status survey of your current training system for plant personnel.



Support for your decision-making and advice which parts are critical to invest in.



Plan for training system renewal.

NAPCON SERVICES

NAPCON Services offer our experts to your service, ready to ensure that training your plant personnel is as effortless and efficient as possible. We offer state-of-the-art maintenance and development services for both software and hardware to ensure that the learning environment evolves together with the actual plant and has very low downtime.



NAPCON SERVICES



MAINTENANCE &
DEVELOPMENT
SERVICES



SOFTWARE
UPDATES
SERVICES



CALL DESK
SERVICES

NAPCON TRAIN SERVICES PROVIDES

SIMULATOR MAINTENANCE & DEVELOPMENT SERVICES

The service guarantees that your NAPCON Simulator has latest versions of NAPCON Software Suite and the simulation models are always close to the real plant state.

HARDWARE MAINTENANCE SERVICES

This service ensures that the hardware related to the training environment is always updated with the required specifications. This gives you the best training experience and minimizes the downtime of your training facility.

CALL DESK SERVICES

This service allows you to contact our experts directly in case you need technical support or if you face issues with NAPCON Train solutions. Our service desk experts will provide you with information and solve your problems remotely or on site.

BUSINESS ADVANTAGES OF NAPCON TRAIN

BENEFITS

The payback period for NAPCON Train solution can be as low as a few days. Some of the many business benefits of NAPCON Train solutions are:

- Reducing project delays during plant commissioning and start-up.
- Maximize return-on-investment in personnel training.
- Helps to conserve the knowledge of retiring experienced operators, which is essential for plant performance.
- Higher profitability by higher utilization of the assets ensuring safer operations.
- Well-trained employees perform better which in turn helps in improving bottom line.
- Evaluate and qualify new operators for start-ups and operating existing plants.

KNOWLEDGE SHARING

A high percentage of employees in the oil & gas industry will retire in the coming years. This increases the demand for transferring decades of expertise and knowledge to new employees. The change can be driven by using NAPCON Train solutions.

NAPCON Train solutions presents a training methodology that helps the next generation of employees to attain the required knowledge and keeps them engaged. It provides them with state-of-the-art training tools that not only speed up the training time but also helps to boost their careers.

IMPROVED PLANT OPERATIONS

Reduced plant OPEX and other maintenance costs with better operated plant.

Improved energy efficiency and sustainable operations with well-trained plant personnel.

LIFE LONG LEARNING

NAPCON Train solutions are modern, state-of-the-art training solutions that help to enhance training needs.

Our solution supports and sustains lifelong learning by improving the operators knowledge, skills and competences.

ALL WORK, ALL PLAY.

For more than a decade, NAPCON has looked for ways to renew training methods. *Our modern solutions make training your staff not only totally risk free, but also efficient and exciting.*





UNDERSTAND

NAPCON Understand solutions will turn the data provided by your plant into relevant information that helps to optimize your company's production.

NAPCON Informer
NAPCON Analytics



IMPROVE

NAPCON Improve solutions will bring out the maximum potential of your operations and helps you to ensure that your investments meet your strategic goals.

NAPCON Controller
NAPCON Optimizer
NAPCON Business Optimizer



TRAIN

NAPCON Train solutions will bring the real life plant into the virtual world, making training operators and testing the limits of your plant safe and exciting.

NAPCON Simulator
NAPCON Games

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